Attorney Docket No. FSF-031391

#### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

# **Listing of Claims**:

1. (Currently amended) A photothermographic material comprising a substrate, and a photosensitive silver halide, a non-photosensitive organic silver salt, reducing agents for thermal development and a binder which are provided on the substrate, wherein:

the reducing agents for thermal development include are a reducing agent which does not form a dye during thermal development and a reducing agent which forms a dye during thermal development;

the reducing agent which forms a dye has higher activity than that of the reducing agent which does not form a dye so that a developing activity of the reducing agent which forms a dye is higher by 0.02 or more in terms of logarithmic value (-LogE) of an exposing amount E giving the concentration 1.5 than that of the reducing agent which does not form a dye;

the reducing agent which does not form a dye is a compound represented by the following formula (R1):

# formula (R1)

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wherein  $R_{11}$  and  $R_{12}$  each independently represent a secondary or tertiary alkyl group <u>having 3 or 4 carbon atoms</u>;  $R_{13}$  and  $R_{14}$  each independently represent an alkyl group having [[a]] 2 or more carbon atoms; and  $R_{15}$  represents an alkyl group; the reducing agent which forms a dye is a compound represented by the following formula (R2):

formula (R2)

$$R_{21}$$
  $CH_2-R_{23}$   $CH_2-R_{24}$ 

wherein  $R_{21}$  and  $R_{22}$  each independently represent a secondary or tertiary alkyl group <u>having 3 or 4 carbon atoms</u>;  $R_{23}$  and  $R_{24}$  each independently represent a hydrogen atom, a hydroxyl group, an alkoxy group, an aryloxy group, an acyloxy group, an amino group or a heterocyclic group; and  $R_{25}$  represents a hydrogen atom or an alkyl group; and

wherein the reducing agent represented by the formula (R2) is contained in an amount of 5% to 40% by mol relative to a total amount of the reducing agents; and wherein the total amount of the reducing agents is from 0.2 to 1.5 g/m<sup>2</sup>.

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Original) A photothermographic material according to claim 1, which further comprises a development promoter.

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## 6. (Cancelled)

7. (Original) A photothermographic material according to claim 5, wherein the development promoter contains at least one selected from the group consisting of a compound represented by the following general formulae (A-1) and a compound represented by the following general formula (A-2):

General formula (A-1)

Q<sub>1</sub>-NHNH-Q<sub>2</sub>

wherein  $Q_1$  represents an aromatic group or a heterocyclic group which bonds to -NHNH- $Q_2$  via a carbon atom;  $Q_2$  represents a carbamoyl group, an acyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, a sulfonyl group or a sulfamoyl group,

General formula (A-2)

$$R_3$$
 $R_4$ 
 $R_2$ 
 $R_2$ 

wherein R<sub>1</sub> represents an alkyl group, an acyl group, an acylamino group, an sulfonamide group, an alkoxycarbonyl group, or a carbamoyl group; R<sub>2</sub> represents a hydrogen atom, a halogen atom, an alkyl group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an acyloxy group, or a carbonic acid ester group; and R<sub>3</sub> and R<sub>4</sub> each represent a group which is substitutable at a benzene ring, or couple with each other to form a condensed ring.

# 8. (Cancelled)

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- 9. (Original) A photothermographic material according to claim 1, which further comprises a hydrogen bond-forming compound.
  - 10. (Cancelled)
- 11. (Original) A photothermographic material according to claim 7, which further comprises a hydrogen bond-forming compound.
  - 12. (Cancelled)
- 13. (Original) A photothermographic material according to claim 9, wherein the hydrogen bond-forming compound is a compound represented by the following general formula (D):

General formula (D)

wherein  $R^{21}$  to  $R^{23}$  each independently represent an alkyl group, an aryl group, an alkoxy group, an aryloxy group, an amino group or a heterocyclic group.

14. (Previously presented) A photothermographic material according to claim 1, which comprises a compound represented by the following general formula (H): General formula (H)

$$Q-(Y)_n-C(Z_1)(Z_2)X$$

wherein Q represents an alkyl group, an aryl group or a heterocyclic group; Y represents a divalent linking group;  $Z_1$  and  $Z_2$  each represent a halogen atom; X represents a hydrogen atom or an electron withdrawing group; and n represents 0 or 1.

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- 15. (Original) A photothermographic material according to claim 1, wherein a total amount of coated silver is 1.9 g/m<sup>2</sup> or less.
- 16. (Original) A photothermographic material according to claim 1, wherein thermal developing is completed within 16 seconds.
- 17. (Currently amended) A method for forming a black and white image due to a silver image on a monosheet photothermographic material by exposing the material and then thermally developing the exposed material, wherein the material comprises a substrate, and a photosensitive silver halide, a non-photosensitive organic silver salt, reducing agents for thermal development and a binder which are provided on the substrate, wherein:

the reducing agents for thermal development include are a reducing agent which does not form a dye during thermal development and a reducing agent which forms a dye during thermal development;

the reducing agent which forms a dye has higher activity than that of the reducing agent which does not form a dye so that a developing activity of the reducing agent which forms a dye is higher by 0.02 or more in terms of logarithmic value (-LogE) of an exposing amount E giving the concentration 1.5 than that of the reducing agent which does not form a dye;

the reducing agent which does not form a dye is a compound represented by the following formula (R1):

formula (R1)

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wherein R<sub>11</sub> and R<sub>12</sub> each independently represent a secondary or tertiary alkyl group having 3 or 4 carbon atoms; R<sub>13</sub> and R<sub>14</sub> each independently represent an alkyl group having [[a ]] 2 or more carbon atoms; and R<sub>15</sub> represents an alkyl group;

the reducing agent which forms a dye is a compound represented by the following formula (R2):

formula (R2)

wherein R<sub>21</sub> and R<sub>22</sub> each independently represent a secondary or tertiary alkyl group having 3 or 4 carbon atoms; R23 and R24 each independently represent a hydrogen atom, a hydroxyl group, an alkoxy group, an aryloxy group, an acyloxy group, an amino group or a heterocyclic group; and R<sub>25</sub> represents a hydrogen atom or an alkyl group; and

wherein the reducing agent represented by the formula (R2) is contained in an amount of 5% to 40% by mol relative to a total amount of the reducing agents; and wherein the total amount of the reducing agents is from 0.2 to 1.5 g/m<sup>2</sup>.

- 18. (Previously presented) A photothermographic material according to claim 1, wherein the reducing agent represented by the formula (R2) is contained in an amount of 10 to 30% by mol relative to a total amount of the reducing agents.
- 19. (Previously presented) A method according to claim 17, wherein the reducing agent represented by the formula (R2) is contained in an amount of 10 to 30% by mol relative to a total amount of the reducing agents.